

MULTISENSOR TOWED ARRAY DETECTION SYSTEM (MTADS)



The Naval Research Laboratory is developing a new, nonintrusive geophysical characterization instrument, the Multisensor Towed Array Detection System (MTADS). It will use a variety of sensor devices, including magnetometers and chemical and nuclear radiation detectors. This system will provide the capability for evaluating several acres per day with decimeter accuracy through the use of sensor fusion techniques and incorporation of differential Global Positioning System technology.

Features and advantages include:

- Survey rates of 12 to 20 acres per day
 - 85 to 95% ordnance detection efficiency
 - Use of latitude/longitude or State Plane target coordinate systems
 - Ability to provide quality assurance data with resurvey
 - Ability to waypoint and reacquire targets on a universal grid.
- Applications include:
- Buried ordnance location

Applications include:

- Buried ordnance location
- Characterization of hazardous and radioactive waste landfills for Department of Energy, Department of Interior, and Environmental Protection Agency problem sites.

Licenses are available to companies with commercial interest.

Points of Contact

Naval Research Laboratory
4555 Overlook Avenue, SW, Washington, DC 20375-5320
<http://techtransfer.nrl.navy.mil/>

Dr. Catherine Cotell • Head, Technology Transfer Office • (202) 767-7230 • Cotell@nrl.navy.mil
Dr. Herb Nelsoon • Chemistry Division • (202) 767-3686 • Lloyd.Whitman@nrl.navy.mil